

Jeffery J Babon

List of Publications by Year in descending order

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96
papers

7,414
citations

76326

40
h-index

58581

82
g-index

100
all docs

100
docs citations

100
times ranked

10724
citing authors

#	ARTICLE	IF	CITATIONS
1	The Pseudokinase MLKL Mediates Necroptosis via a Molecular Switch Mechanism. <i>Immunity</i> , 2013, 39, 443-453.	14.3	958
2	The molecular details of cytokine signaling via the JAK/STAT pathway. <i>Protein Science</i> , 2018, 27, 1984-2009.	7.6	485
3	Activation of the pseudokinase MLKL unleashes the four-helix bundle domain to induce membrane localization and necroptotic cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15072-15077.	7.1	484
4	Leukemia inhibitory factor (LIF). <i>Cytokine and Growth Factor Reviews</i> , 2015, 26, 533-544.	7.2	320
5	The molecular basis of JAK/STAT inhibition by SOCS1. <i>Nature Communications</i> , 2018, 9, 1558.	12.8	298
6	CIS is a potent checkpoint in NK cell-mediated tumor immunity. <i>Nature Immunology</i> , 2016, 17, 816-824.	14.5	289
7	The molecular regulation of Janus kinase (JAK) activation. <i>Biochemical Journal</i> , 2014, 462, 1-13.	3.7	251
8	A robust methodology to subclassify pseudokinases based on their nucleotide-binding properties. <i>Biochemical Journal</i> , 2014, 457, 323-334.	3.7	241
9	Suppression of Cytokine Signaling by SOCS3: Characterization of the Mode of Inhibition and the Basis of Its Specificity. <i>Immunity</i> , 2012, 36, 239-250.	14.3	240
10	SOCS3 binds specific receptor-JAK complexes to control cytokine signaling by direct kinase inhibition. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 469-476.	8.2	229
11	TLR7 gain-of-function genetic variation causes human lupus. <i>Nature</i> , 2022, 605, 349-356.	27.8	208
12	Bass Hepcidin Synthesis, Solution Structure, Antimicrobial Activities and Synergism, and in Vivo Hepatic Response to Bacterial Infections. <i>Journal of Biological Chemistry</i> , 2005, 280, 9272-9282.	3.4	179
13	Suppression of cytokine signaling: The SOCS perspective. <i>Cytokine and Growth Factor Reviews</i> , 2013, 24, 241-248.	7.2	165
14	Inhibition of IL-6 family cytokines by SOCS3. <i>Seminars in Immunology</i> , 2014, 26, 13-19.	5.6	157
15	The Structure of SOCS3 Reveals the Basis of the Extended SH2 Domain Function and Identifies an Unstructured Insertion That Regulates Stability. <i>Molecular Cell</i> , 2006, 22, 205-216.	9.7	140
16	Structural analysis of cooperative RNA binding by the La motif and central RRM domain of human La protein. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 323-329.	8.2	128
17	The SOCS Box Encodes a Hierarchy of Affinities for Cullin5: Implications for Ubiquitin Ligase Formation and Cytokine Signalling Suppression. <i>Journal of Molecular Biology</i> , 2009, 387, 162-174.	4.2	117
18	Structure and function of the SPRY/B30.2 domain proteins involved in innate immunity. <i>Protein Science</i> , 2013, 22, 1-10.	7.6	109

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19	The biology and mechanism of action of suppressor of cytokine signaling 3. <i>Growth Factors</i> , 2012, 30, 207-219.	1.7	101
20	Structure of the C-Terminal Domain of Human La Protein Reveals a Novel RNA Recognition Motif Coupled to a Helical Nuclear Retention Element. <i>Structure</i> , 2003, 11, 833-843.	3.3	96
21	Insights into the evolution of divergent nucleotide-binding mechanisms among pseudokinases revealed by crystal structures of human and mouse MLKL. <i>Biochemical Journal</i> , 2014, 457, 369-377.	3.7	92
22	The SOCS Box Domain of SOCS3: Structure and Interaction with the ElonginBC-Cullin5 Ubiquitin Ligase. <i>Journal of Molecular Biology</i> , 2008, 381, 928-940.	4.2	91
23	The SPRY domain-containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. <i>Journal of Cell Biology</i> , 2010, 190, 129-141.	5.2	88
24	Stabilization of Neurotoxic Soluble β -Sheet-Rich Conformations of the Alzheimer's Disease Amyloid- β Peptide. <i>Biophysical Journal</i> , 2008, 94, 2752-2766.	0.5	87
25	Structure and Sodium Channel Activity of an Excitatory K^+ -Superfamily Conotoxin. <i>Biochemistry</i> , 2007, 46, 9929-9940.	2.5	78
26	Functional rare and low frequency variants in BLK and BANK1 contribute to human lupus. <i>Nature Communications</i> , 2019, 10, 2201.	12.8	73
27	The SPRY domain of SSB-2 adopts a novel fold that presents conserved Par-4-binding residues. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 77-84.	8.2	72
28	COL4A4 mutation in thin basement membrane disease previously described in Alport syndrome. See Editorial by Monnens, p. 799. <i>Kidney International</i> , 2001, 60, 480-483.	5.2	70
29	Mutations in the COL4A4 gene in thin basement membrane disease. <i>Kidney International</i> , 2003, 63, 447-453.	5.2	65
30	Export of malaria proteins requires co-translational processing of the PEXEL motif independent of phosphatidylinositol-3-phosphate binding. <i>Nature Communications</i> , 2016, 7, 10470.	12.8	65
31	Regulation of Janus kinases by SOCS proteins. <i>Biochemical Society Transactions</i> , 2013, 41, 1042-1047.	3.4	62
32	Suppressor of cytokine signaling (SOCS)5 ameliorates influenza infection via inhibition of EGFR signaling. <i>ELife</i> , 2017, 6, .	6.0	61
33	NK cell-derived GM-CSF potentiates inflammatory arthritis and is negatively regulated by CIS. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	60
34	Roquin binds microRNA-146a and Argonaute2 to regulate microRNA homeostasis. <i>Nature Communications</i> , 2015, 6, 6253.	12.8	59
35	The Use of Resolvases T4 Endonuclease VII and T7 Endonuclease I in Mutation Detection. <i>Molecular Biotechnology</i> , 2003, 23, 73-82.	2.4	57
36	Deletion of the SOCS box of suppressor of cytokine signaling 3 (SOCS3) in embryonic stem cells reveals SOCS box-dependent regulation of JAK but not STAT phosphorylation. <i>Cellular Signalling</i> , 2009, 21, 394-404.	3.6	57

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37	Structure of the Eukaryotic Initiation Factor (eIF) 5 Reveals a Fold Common to Several Translation Factors., <i>Biochemistry</i> , 2006, 45, 4550-4558.	2.5	53
38	Suramin and Suramin Analogues Inhibit Merozoite Surface Protein-1 Secondary Processing and Erythrocyte Invasion by the Malaria Parasite <i>Plasmodium falciparum</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 47670-47677.	3.4	52
39	Attenuation of AMPK signaling by ROQUIN promotes T follicular helper cell formation. <i>ELife</i> , 2015, 4, .	6.0	52
40	Secondary structure assignment of mouse SOCS3 by NMR defines the domain boundaries and identifies an unstructured insertion in the SH2 domain. <i>FEBS Journal</i> , 2005, 272, 6120-6130.	4.7	45
41	Crystal structure of the TRIM25 B30.2 (PRYSPRY) domain: a key component of antiviral signalling. <i>Biochemical Journal</i> , 2013, 456, 231-240.	3.7	42
42	Suppressor of Cytokine Signaling (SOCS) 5 Utilises Distinct Domains for Regulation of JAK1 and Interaction with the Adaptor Protein Shc-1. <i>PLoS ONE</i> , 2013, 8, e70536.	2.5	42
43	Structural studies on <i>Plasmodium vivax</i> merozoite surface protein-1. <i>Molecular and Biochemical Parasitology</i> , 2007, 153, 31-40.	1.1	40
44	Neutrophils Require SHP1 To Regulate IL-1 β Production and Prevent Inflammatory Skin Disease. <i>Journal of Immunology</i> , 2011, 186, 1131-1139.	0.8	40
45	Accumulation of JAK activation loop phosphorylation is linked to type I JAK inhibitor withdrawal syndrome in myelofibrosis. <i>Science Advances</i> , 2018, 4, eaat3834.	10.3	39
46	Protein effective rotational correlation times from translational self-diffusion coefficients measured by PFG-NMR. <i>Biophysical Chemistry</i> , 2008, 136, 145-151.	2.8	36
47	Evolution of Transthyretin in Marsupials. <i>FEBS Journal</i> , 1995, 227, 396-406.	0.2	35
48	Reconstruction of an active SOCS3-based E3 ubiquitin ligase complex in vitro: identification of the active components and JAK2 and gp130 as substrates. <i>Growth Factors</i> , 2014, 32, 1-10.	1.7	35
49	Mechanistic insights into activation and SOCS3-mediated inhibition of myeloproliferative neoplasm-associated JAK2 mutants from biochemical and structural analyses. <i>Biochemical Journal</i> , 2014, 458, 395-405.	3.7	33
50	Ptpn6 inhibits caspase-8- and Ripk3/Mlkl-dependent inflammation. <i>Nature Immunology</i> , 2020, 21, 54-64.	14.5	33
51	Heterodimerization of the human RNase P/MRP subunits Rpp20 and Rpp25 is a prerequisite for interaction with the P3 arm of RNase MRP RNA. <i>Nucleic Acids Research</i> , 2010, 38, 4052-4066.	14.5	31
52	Molecular Architecture of the Ankyrin SOCS Box Family of Cul5-Dependent E3 Ubiquitin Ligases. <i>Journal of Molecular Biology</i> , 2013, 425, 3166-3177.	4.2	31
53	Structure and Inter-domain Interactions of Domain II from the Blood-stage Malarial Protein, Apical Membrane Antigen 1. <i>Journal of Molecular Biology</i> , 2005, 350, 641-656.	4.2	30
54	Reactivity of potassium permanganate and tetraethylammonium chloride with mismatched bases and a simple mutation detection protocol. <i>Nucleic Acids Research</i> , 1999, 27, 1866-1874.	14.5	29

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55	Improved strategy for mutation detection—a modification to the enzyme mismatch cleavage method. <i>Nucleic Acids Research</i> , 1995, 23, 5082-5084.	14.5	27
56	Mutation detection using fluorescent enzyme mismatch cleavage with T4 endonuclease VII. <i>Electrophoresis</i> , 1999, 20, 1162-1170.	2.4	21
57	Interaction of linear homologous DNA duplexes via Holliday junction formation. <i>FEBS Journal</i> , 2001, 268, 7-14.	0.2	18
58	Resonance assignment and secondary structure of an N-terminal fragment of the human La protein. <i>Journal of Biomolecular NMR</i> , 2003, 27, 93-94.	2.8	16
59	In Vitro JAK Kinase Activity and Inhibition Assays. <i>Methods in Molecular Biology</i> , 2013, 967, 39-55.	0.9	16
60	Functional characterization of c-Mpl ectodomain mutations that underlie congenital amegakaryocytic thrombocytopenia. <i>Growth Factors</i> , 2014, 32, 18-26.	1.7	16
61	Persistence of myelofibrosis treated with ruxolitinib: biology and clinical implications. <i>Haematologica</i> , 2021, 106, 1244-1253.	3.5	16
62	Techniques to examine nucleotide binding by pseudokinases. <i>Biochemical Society Transactions</i> , 2013, 41, 975-980.	3.4	15
63	Letter to the Editor: Backbone 1H, 13C and 15N assignments of the 25 kDa SPRY domain-containing SOCS box protein 2 (SSB-2). <i>Journal of Biomolecular NMR</i> , 2005, 31, 69-70.	2.8	14
64	Dynamics of the SPRY domain-containing SOCS box protein 2: Flexibility of key functional loops. <i>Protein Science</i> , 2006, 15, 2761-2772.	7.6	14
65	Structure and Functional Characterization of the Conserved JAK Interaction Region in the Intrinsically Disordered N-Terminus of SOCS5. <i>Biochemistry</i> , 2015, 54, 4672-4682.	2.5	14
66	Cortical Layer Inversion and Dereglulation of Reelin Signaling in the Absence of SOCS6 and SOCS7. <i>Cerebral Cortex</i> , 2017, 27, bhv253.	2.9	13
67	Chemical cleavage reactions of DNA on solid support: application in mutation detection. <i>BMC Chemical Biology</i> , 2003, 3, 1.	1.6	12
68	Novel TP53 gene mutations in tumors of Russian patients with breast cancer detected using a new solid phase chemical cleavage of mismatch method and identified by sequencing. <i>Human Mutation</i> , 2004, 23, 186-192.	2.5	12
69	NMR studies of interactions between Bax and BH3 domain-containing peptides in the absence and presence of CHAPS. <i>Archives of Biochemistry and Biophysics</i> , 2014, 545, 33-43.	3.0	11
70	Identification of a second binding site on the TRIM25 B30.2 domain. <i>Biochemical Journal</i> , 2018, 475, 429-440.	3.7	11
71	Heteronuclear NMR spectroscopy of proteins encapsulated in cubic phase lipids. <i>Journal of Magnetic Resonance</i> , 2019, 305, 146-151.	2.1	11
72	The Role of LNK (SH2B3) in the Regulation of JAK-STAT Signalling in Haematopoiesis. <i>Pharmaceuticals</i> , 2022, 15, 24.	3.8	11

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73	Enzymatic Characterization of Wild-Type and Mutant Janus Kinase 1. <i>Cancers</i> , 2019, 11, 1701.	3.7	10
74	Measuring translational diffusion of 15N-enriched biomolecules in complex solutions with a simplified 1H-15N HMQC-filtered BEST sequence. <i>European Biophysics Journal</i> , 2018, 47, 891-902.	2.2	9
75	Physiochemical Characterization and Stability of Lipidic Cubic Phases by Solution NMR. <i>Langmuir</i> , 2020, 36, 6254-6260.	3.5	8
76	Discovery of an exosite on the SOCS2-SH2 domain that enhances SH2 binding to phosphorylated ligands. <i>Nature Communications</i> , 2021, 12, 7032.	12.8	8
77	Purification of SOCS (Suppressor of Cytokine Signaling) SH2 Domains for Structural and Functional Studies. <i>Methods in Molecular Biology</i> , 2017, 1555, 173-182.	0.9	7
78	TGF- β^2 and IL-6 family signalling crosstalk: an integrated model. <i>Growth Factors</i> , 2017, 35, 100-124.	1.7	7
79	Membrane-associated RING-CH (MARCH) proteins down-regulate cell surface expression of the interleukin-6 receptor alpha chain (IL6R α). <i>Biochemical Journal</i> , 2019, 476, 2869-2882.	3.7	7
80	JAK1 Takes a FERM Hold of Type II Cytokine Receptors. <i>Structure</i> , 2016, 24, 840-842.	3.3	6
81	The intracellular domains of the EphB6 and EphA10 receptor tyrosine pseudokinases function as dynamic signalling hubs. <i>Biochemical Journal</i> , 2021, 478, 3351-3371.	3.7	6
82	Structural and functional analysis of target recognition by the lymphocyte adaptor protein LNK. <i>Nature Communications</i> , 2021, 12, 6110.	12.8	6
83	Letter to the Editor: Resonance Assignment and Secondary Structure of the La Motif. <i>Journal of Biomolecular NMR</i> , 2004, 29, 449-450.	2.8	5
84	VHL: Cullin-g the Hypoxic Response. <i>Structure</i> , 2015, 23, 435-436.	3.3	5
85	Chemical Exchange of Hydroxyl Groups in Lipidic Cubic Phases Characterized by NMR. <i>Journal of Physical Chemistry B</i> , 2021, 125, 571-580.	2.6	5
86	In Vitro Ubiquitination of Cytokine Signaling Components. <i>Methods in Molecular Biology</i> , 2013, 967, 261-271.	0.9	4
87	Expression and Purification of JAK1 and SOCS1 for Structural and Biochemical Studies. <i>Methods in Molecular Biology</i> , 2018, 1725, 267-280.	0.9	4
88	Proteomic analyses reveal that immune integrins are major targets for regulation by Membrane-associated Ring-CH (MARCH) proteins MARCH2, 3, 4 and 9. <i>Proteomics</i> , 2021, 21, 2000244.	2.2	3
89	NMR measurement of biomolecular translational and rotational motion for evaluating changes of protein oligomeric state in solution. <i>European Biophysics Journal</i> , 2022, 51, 193-204.	2.2	3
90	The Use of Resolvases T4 Endonuclease VII and T7 Endonuclease I in Mutation Detection. , 2000, 152, 187-199.		2

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91	Quantitative Analysis of JAK Binding Using Isothermal Titration Calorimetry and Surface Plasmon Resonance. <i>Methods in Molecular Biology</i> , 2013, 967, 57-67.	0.9	2
92	Optimization of Phosphotyrosine Peptides that Target the SH2 Domain of SOCS1 and Block Substrate Ubiquitination. <i>ACS Chemical Biology</i> , 2022, , .	3.4	2
93	Dissecting the molecular control of Interleukin 6 signaling using the M1 cell line. <i>Cytokine</i> , 2021, 146, 155624.	3.2	1
94	A Two-Site Interaction Underpins TRIM25 Activation of the RIG-I Anti-Viral Response. <i>Blood</i> , 2014, 124, 1580-1580.	1.4	1
95	Resonance assignment for the N-terminal region of the eukaryotic initiation factor 5 (eIF5). <i>Journal of Biomolecular NMR</i> , 2006, 36, 42-42.	2.8	0
96	The SPRY domain-containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. <i>Journal of Experimental Medicine</i> , 2010, 207, i22-i22.	8.5	0